

THE DELTA FAMILY



*Delta Rockets II, III, and IV
Thrust Into the Future*



Delta II and Delta III Specifications

	Delta II*	Delta III
Height	34.1 m (111.9 ft)	39.1 m (128.2 ft)
Booster Diameter	2.4 m (8 ft)	2.4 m (8 ft)
Upper Stage Diameter	2.4 m (8 ft)	4 m (13.1 ft)
Fairing Diameter	2.9 m (9.5 ft) and 3 m (10 ft)	4 m (13.1 ft)
Gross Liftoff Weight	231,870 kg (511,190 lb)	299,376 kg (660,000 lb)
Booster Fuel	Liquid Oxygen and RP-1 (kerosene)	Liquid Oxygen and RP-1 (kerosene)
Solid Rocket Boosters	Delta II Graphite Epoxy Motor	Delta III Graphite Epoxy Motor
Quantity	9 or 4 or 3	9
Inert Mass (Each)	1,315 kg (2,900 lb)	2,037 kg (4,490 lb)
Usable Propellant Mass (Each)	11,766 kg (25,940 lb)	16,733 kg (36,890 lb)
Diameter	1 m (3.3 ft)	1.16 m (3.8 ft)
Length	12.9 m (42.5 ft)	14.6 m (48.1 ft)
Booster Fuel Weight (Usable)	95,809 kg (211,220 lb)	95,551 kg (210,650 lb)
Payload Weight		
Low-Earth Orbit	4,971 kg (10,960 lb)	8,292 kg (18,280 lb)
Geosynchronous-Transfer Orbit	1,799 kg (3,965 lb)	3,810 kg (8,400 lb)
Mars Orbit	1,066 kg (2,350 lb)	2,177 kg (4,800 lb)
Moon Orbit	1,315 kg (2,900 lb)	2,722 kg (6,000 lb)
Liftoff Thrust-to-Weight Ratio	1.37	1.36
Number of Launches Since 1960**	259	1
Percent Successful	94.59	0

Delta IV currently is under development and in competition for the Evolved Expendable Launch Vehicle (EELV) program. Therefore, no data is available.

*All weights and performance based on 9 solid rocket motor boosters

**As of 8 September 1997